



DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER)
BOARD AND CODE ADMINISTRATION DIVISION

MIAMI-DADE COUNTY
PRODUCT CONTROL SECTION
11805 SW 26 Street, Room 208
Miami, Florida 33175-2474
T (786) 315-2590 F (786) 315-2599

www.miamidade.gov/economy

NOTICE OF ACCEPTANCE (NOA)

Arrow Shed, LLC
1101 N. 4th Street
Breese, IL 62230

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER- Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code.

This product is approved as described herein, and has been designed to comply with the High Velocity Hurricane Zone of the Florida Building Code.

DESCRIPTION: Cold Formed Steel Utility Sheds

APPROVAL DOCUMENT: Drawing No. S1, S2 and S3, titled "6' x 5', 8' x 6', 8' x 8' & 10' x 8' Utility Sheds", sheets S1 through S3, dated 06/12/2012, prepared by McGinnis & Associates Consulting Engineers, Inc., signed and sealed by Daniel W. McGinnis, P.E., on 04/08/2013, bearing the Miami-Dade County Product Control Revision stamp with the Notice of Acceptance number and expiration date by Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state and the following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official.

This NOA revises & renews NOA # 07-0214.15 and consists of this page 1, evidence submitted pages E-1, E-2, E-3, & E-4 as well as approval document mentioned above.

The submitted documentation was reviewed by Helmy A. Makar, P.E. M.S.



Helmy A. Makar
04/25/2013

NOA No. 12-0716.03
Expiration Date: 08/24/2017
Approval Date: 04/25/2013
Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

1. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 98-0113.03

A. DRAWINGS

1. *Drawing No. S1, S2, & S3, total 3 sheets, prepared by R. T. Wharton, P.E., titled " 6' x 5', 8' x 6', 8' x 8', & 10' x 8' Utility Sheds", dated December 12, 1997, last revision #1 dated July 13 (sheets S1 & S3) and July 14 (sheet S2), 1998, signed and sealed by R. T. Wharton, P.E.*

B. TESTS

1. *Test report on Large Missile Impact Test and Cyclic Wind Pressure Test of "Utility Shed Doors", prepared by Hurricane Engineering & Testing, Inc., Report No. HETI-97-693, dated 11/18/97, signed and sealed by Hector M. Medina, P.E.*
2. *Test report on Uniform Static Air Pressure Test of "Utility Shed Doors", prepared by Hurricane Engineering & Testing, Inc., Report No. HETI-97-692, dated 11/18/97, signed and sealed by Hector M. Medina, P.E.*
3. *Test report on Large Missile Impact Test and Cyclic Wind Pressure Test of "Utility Shed Panels", prepared by Hurricane Engineering & Testing, Inc., Report No. HETI-97-691, dated 11/17/97, signed and sealed by Hector M. Medina, P.E.*
4. *Test report on Uniform Static Air Pressure Test of "Utility Shed Panels", prepared by Hurricane Engineering & Testing, Inc., Report No. HETI-97-690, dated 11/17/97, signed and sealed by Hector M. Medina, P.E.*

C. CALCULATIONS

1. *Calculation of " 6' x 5', 8' x 6', 8' x 8', & 10' x 8' Utility Buildings" and anchor calculations dated 12/26/97, pages 1 to 39 of 39, prepared by Van Dam Engineering, signed and sealed by R. T. Wharton, P.E.*
2. *Calculation of " 6' x 5', 8' x 6', 8' x 8', & 10' x 8' Utility Buildings" and anchor calculations dated 07/14/98, pages 1 to 10 of 10, prepared by Van Dam Engineering, signed and sealed by R. T. Wharton, P.E.*

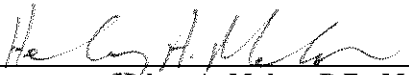
D. MATERIAL CERTIFICATIONS

1. *Mill Certified Test Report issued by National Steel Corporation, with chemical composition and mechanical properties of structural members.*
2. *Mill Certified Test Report issued by Bethlehem Steel Corporation, with chemical composition and mechanical properties of cold-formed panel, dated 07/09/98.*
3. *Tensile Test Report No. HETI-97-T64, prepared by Hurricane Engineering & Testing, Inc., dated 12/29/97, signed and sealed by Hector M. Medina, P.E.*
4. *Tensile Test Report No. HETI-97-T65, prepared by Hurricane Engineering & Testing, Inc., dated 12/29/97, signed and sealed by Hector M. Medina, P.E.*

2. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 01-0430.04

A. DRAWINGS

1. *None.*



Helmy A. Makar, P.E., M.S.
Product Control Unit Supervisor
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NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

B. TESTS

1. *None.*

C. CALCULATIONS

1. *None.*

D. MATERIAL CERTIFICATIONS

1. *None.*

3. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 02-0401.03

A. DRAWINGS

See NOA 01-0430.04

B. TESTS

See NOA 01-0430.04

C. CALCULATIONS

See NOA 01-0430.04

D. MATERIAL CERTIFICATIONS

See NOA 01-0430.04

E. STATEMENTS

See NOA 01-0430.04

F. OTHER

See NOA 01-0430.04

4. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL #06-0505.07

A. DRAWINGS

1. *None.*

B. TESTS

1. *None.*

C. CALCULATIONS

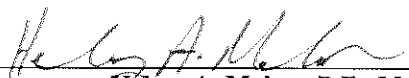
1. *None.*

D. QUALITY ASSURANCE

1. *By Miami-Dade County Building Code Compliance Office.*

E. MATERIAL CERTIFICATIONS

1. *None.*



Helmy A. Makar, P.E., M.S.
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NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

5. EVIDENCE SUBMITTED UNDER PREVIOUS APPROVAL # 07-0214.15

A. DRAWINGS

1. *Drawing No. S1, S2 and S3, titled "6' x 5', 8' x 6', 8' x 8' & 10' x 8' Utility Sheds", sheets S1 through S3, dated 08/01/2007, prepared by McGinnis & Associates Consulting Engineers, Inc., signed and sealed by Daniel W. McGinnis, P.E.*

B. TESTS

1. *Test report on Uniform Static Air Pressure Test of "Utility Shed", prepared by Hurricane Engineering & Testing, Inc., Report No. HETI-06-4073, dated 12/27/06, signed and sealed by Rafael E. Droz-Seda, P.E.*
2. *Test report on Cyclic Wind Pressure Test of "Utility Shed", prepared by Hurricane Engineering & Testing, Inc., Report No. HETI-06-4074, dated 12/27/06, signed and sealed by Rafael E. Droz-Seda, P.E.*
3. *Test report on Uniform Static Air Pressure Test of "Utility Shed", prepared by Hurricane Engineering & Testing, Inc., Report No. HETI-06-4075A, dated 12/27/06, signed and sealed by Rafael E. Droz-Seda, P.E.*
4. *Test report on Cyclic Wind Pressure Test of "Utility Shed", prepared by Hurricane Engineering & Testing, Inc., Report No. HETI-06-4075B, dated 12/27/06, signed and sealed by Rafael E. Droz-Seda, P.E.*

C. CALCULATIONS

1. *None.*

D. QUALITY ASSURANCE

1. *By Miami-Dade County Building Code Compliance Office.*

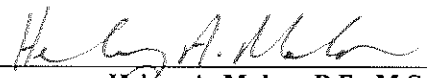
E. MATERIAL CERTIFICATIONS

1. *Tensile Test report of "Utility Shed", prepared by Hurricane Engineering & Testing, Inc., Report No. HETI-07-T601, dated 01/17/07, signed and sealed by Rafael E. Droz-Seda, P.E.*
2. *Tensile Test report of "Utility Shed", prepared by Hurricane Engineering & Testing, Inc., Report No. HETI-07-T602, dated 01/17/07, signed and sealed by Rafael E. Droz-Seda, P.E.*

6. NEW EVIDENCE SUBMITTED

A. DRAWINGS

1. *Drawing No. S1, S2 and S3, titled "6' x 5', 8' x 6', 8' x 8' & 10' x 8' Utility Sheds", sheets S1 through S3, dated 06/12/2012, prepared by McGinnis & Associates Consulting Engineers, Inc., signed and sealed by Daniel W. McGinnis, P.E., on 04/08/2013.*



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B. TESTS

1. *None.*

C. CALCULATIONS

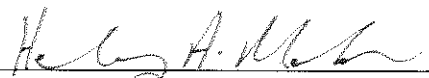
1. *Calculation of " 6' x 5' " Utility Buildings" and anchor calculations dated 06/12/12, pages 1 to 34 of 34, prepared by Daniel W. McGinnis, P.E., signed and sealed by Daniel W. McGinnis, P.E., on 06/28/12.*
2. *Calculation of " 8' x 6' " Utility Buildings" and anchor calculations dated 06/12/12, pages 1 to 34 of 34, prepared by Daniel W. McGinnis, P.E., signed and sealed by Daniel W. McGinnis, P.E., on 06/28/12.*
3. *Calculation of " 8' x 8' " Utility Buildings" and anchor calculations dated 06/12/12, pages 1 to 34 of 34, prepared by Daniel W. McGinnis, P.E., signed and sealed by Daniel W. McGinnis, P.E., on 06/28/12.*
4. *Calculation of " 10' x 8' " Utility Buildings" and anchor calculations dated 06/12/12, pages 1 to 34 of 34, prepared by Daniel W. McGinnis, P.E., signed and sealed by Daniel W. McGinnis, P.E., on 06/28/12.*

D. QUALITY ASSURANCE

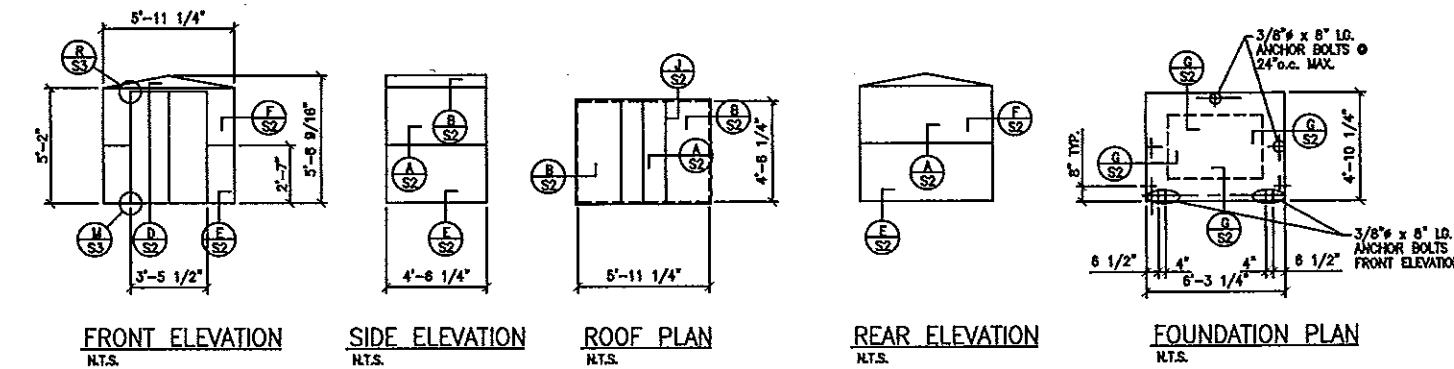
1. *By Miami-Dade County Department of Regulatory and Economic Resources.*

E. MATERIAL CERTIFICATIONS

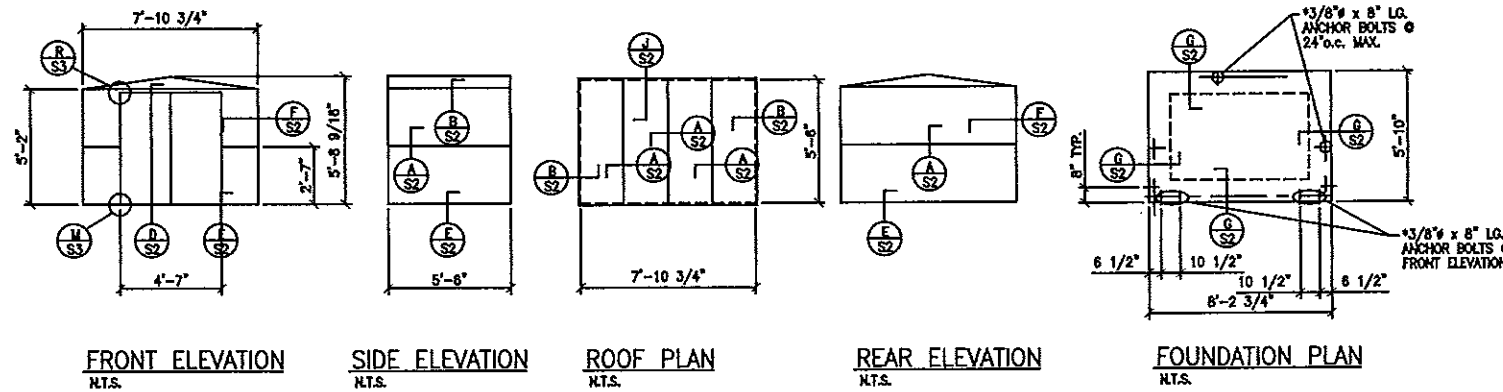
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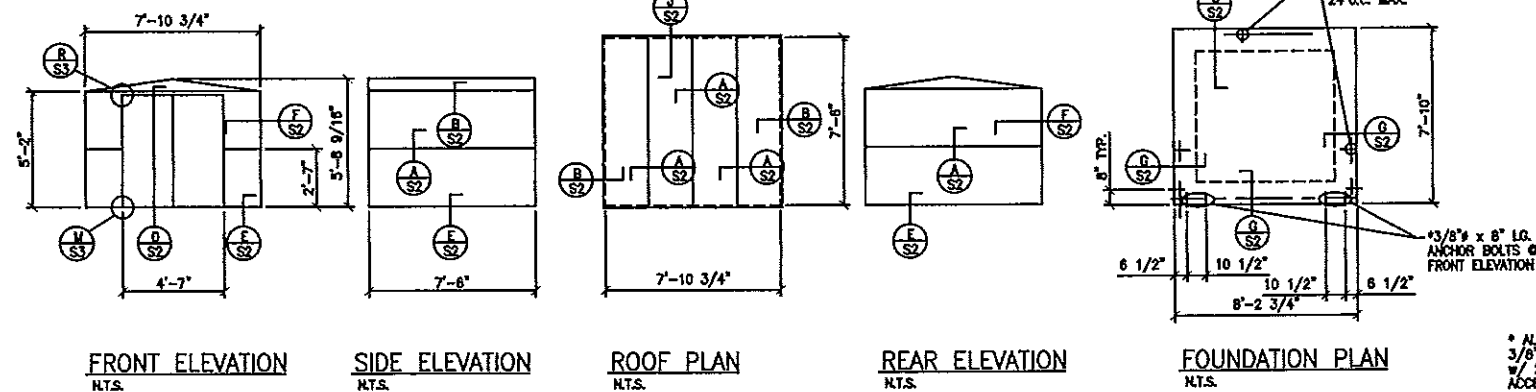
Helmy A. Makar, P.E., M.S.
Product Control unit Supervisor
NOA No. 12-0716.03
Expiration Date: 08/24/2017
Approval Date: 04/25/2013



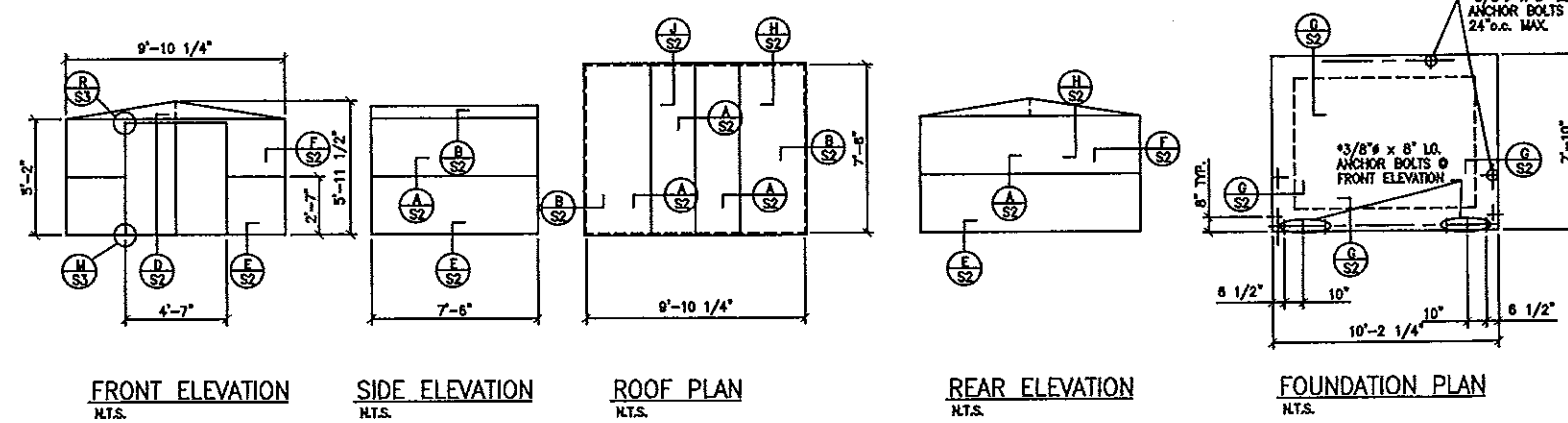
6' x 5' BUILDING
N.T.S.



8' x 6' BUILDING
N.T.S.



8' x 8' BUILDING
N.T.S.



10' x 8' BUILDING
N.T.S.

DESIGN CRITERIA:

THE DESIGN SHOWN ON THESE DRAWINGS
MEET THE REQUIREMENTS
OF THE 2010 FLORIDA BUILDING CODE.

GRAVITY LOADS:

DEAD LOAD: AS CALCULATED PER MEMBER
LIVE LOAD: 15 PSF

WIND LOADS:

ULTIMATE WIND SPEED: 155 MPH
EXPOSURE CATEGORY: C

NOTE: PER SECTION 1609.1.2 STORAGE SHEDS THAT ARE NOT DESIGNED
FOR HUMAN HABITATION AND THAT HAVE A FLOOR AREA OF 720 SQUARE
FEET OR LESS ARE NOT REQUIRED TO COMPLY WITH THE MANDATORY
WINDBORNE DEBRIS IMPACT STANDARDS OF THE 2010 FLORIDA BUILDING
CODE

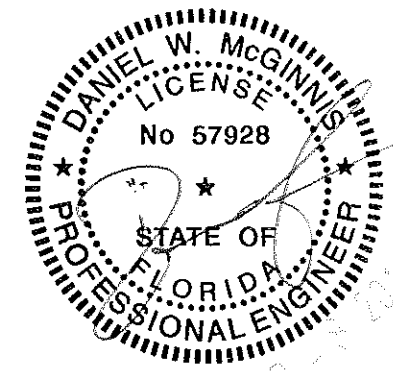
MATERIAL SPECIFICATIONS:

- PANELS: ASTM A625-76, Fy=50 KSI
- CHANNELS & OTHER MEMBERS: ASTM A527-80, Fy=55 KSI
- BOLTS & SCREWS: ASTM A1018, Fy=30 KSI
- ANCHOR BOLTS: ASTM A307, Fy=33KSI
- REINFORCING STEEL: ASTM A615-40, GRADE 40
- WIRE MESH: ASTM A-185
- CONCRETE: 2,500 PSI COMPRESSIVE STRENGTH @ 28 DAYS

ASSUMED ALLOWABLE SOIL BEARING PRESSURE: 1,000 PSF @ A DEPTH OF 1'-0"

PRODUCT REVISED
as complying with the Florida
Building Code
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By *[Signature]*
Miami Dade Product Control

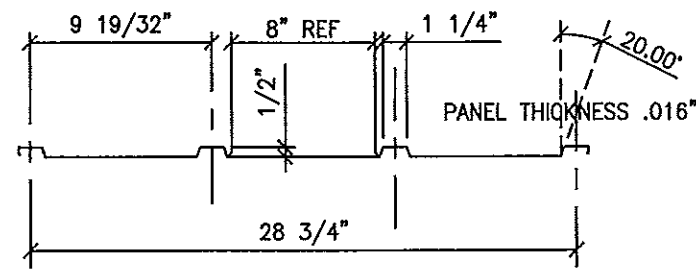
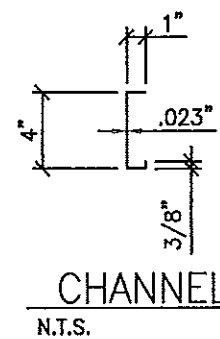
* ALTERNATE ANCHOR: HULTI KWIK BOLT II,
3/8" x 8" LG. CONCRETE ANCHOR
w/ 2 1/2" EMBEDMENT, METRO DADE COUNTY
ACCEPTANCE



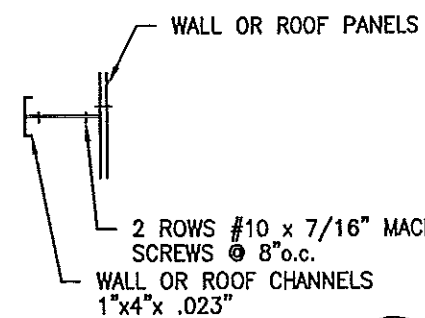
McGINNIS & ASSOCIATES
CONSULTING ENGINEERS, INC.
1110 WESTMARK DRIVE
ST. LOUIS, MISSOURI 63131

12909

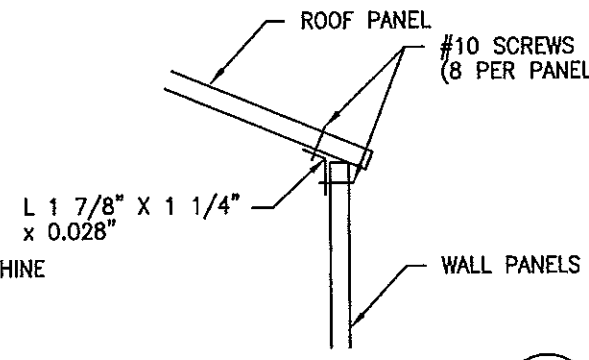
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SHEET TITLE:			SCALE:
PLANS & ELEVATIONS			NONE
PROJECT:			DRAWN BY:
6'x5', 8'x6', 8'x8' & 10'x8'			DWM
UTILITY SHEDS			DATE:
			6/12/12
Arrow Shed, LLC			DRAWING #
1101 N. 4th St.			S1
Breese, IL 62230			
(618) 526-4546			



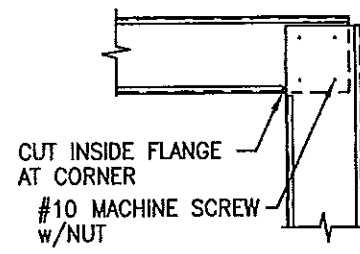
TYPICAL WALL PANEL
NOTE: PANEL WIDTH VARIES



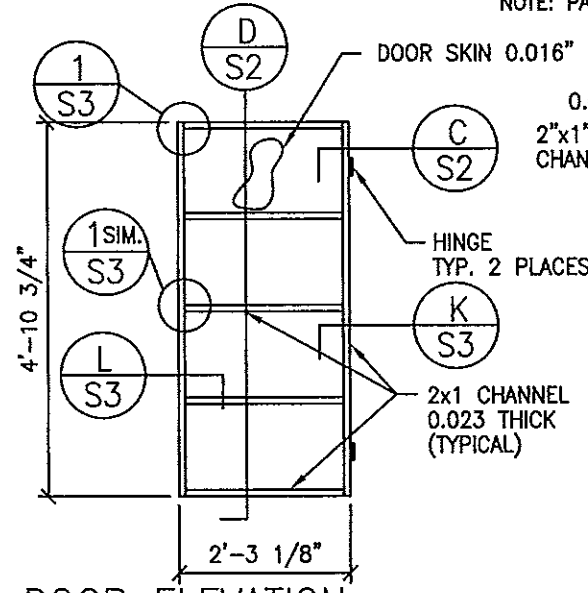
SECTION A
S2
N.T.S.



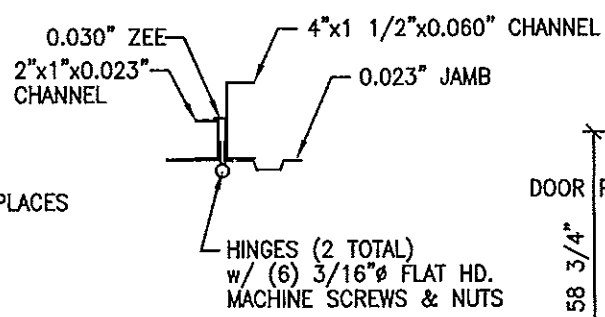
SECTION B
S2
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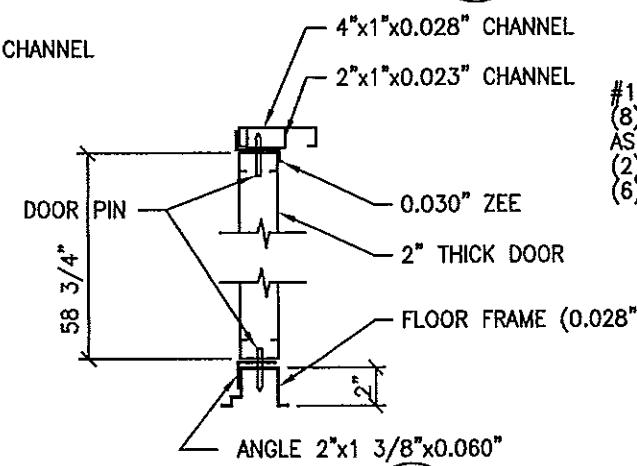
SECTION F
S2
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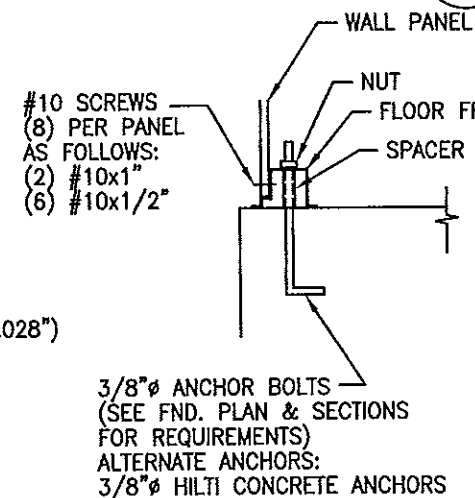
DOOR ELEVATION
N.T.S.



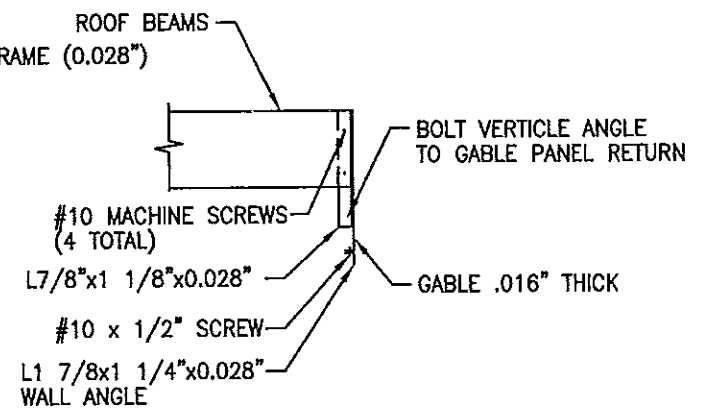
SECTION C
S2
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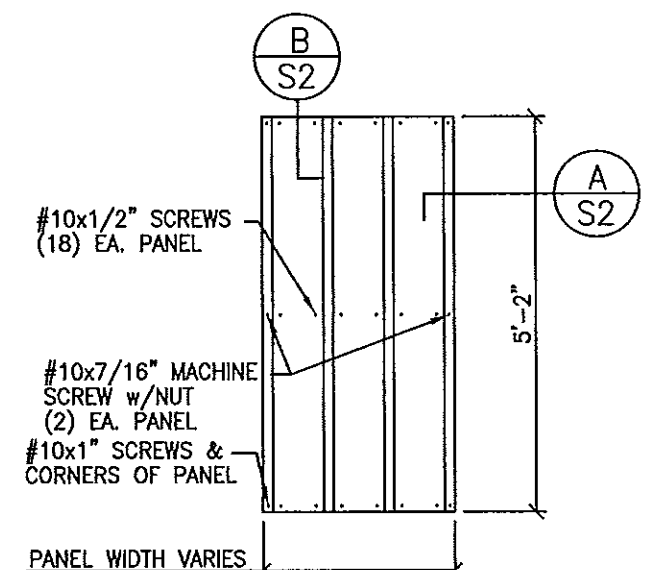
SECTION D
S2
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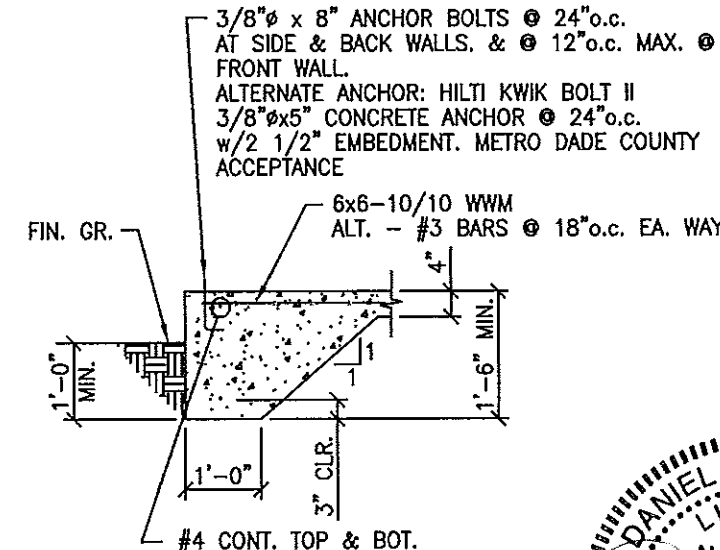
SECTION E
S2
N.T.S.



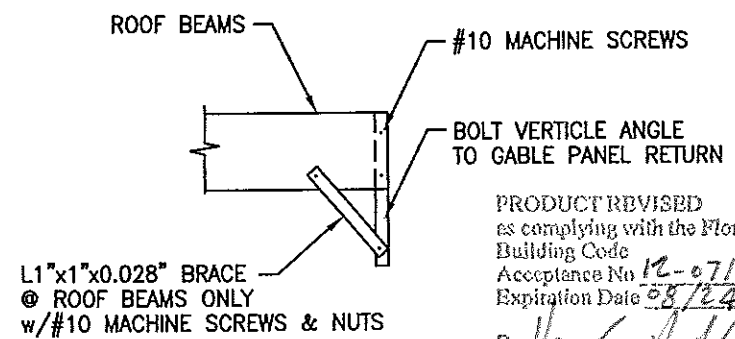
SECTION J
S2
N.T.S.



TYPICAL PANEL FASTENER ELEVATION

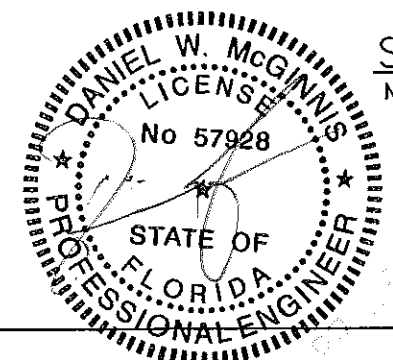


SECTION G
S2
N.T.S.



SECTION H
S2
N.T.S.

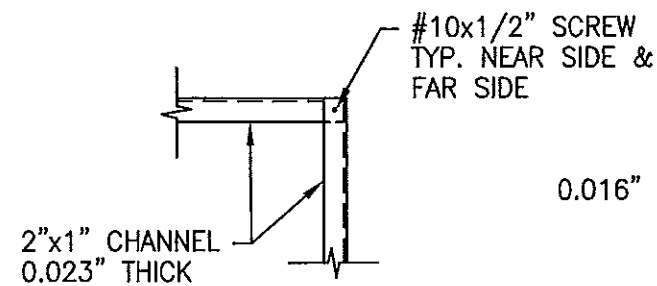
PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No 12-0716-03
Expiration Date 08/24/2017
By *[Signature]*
Miami Dade Product Control



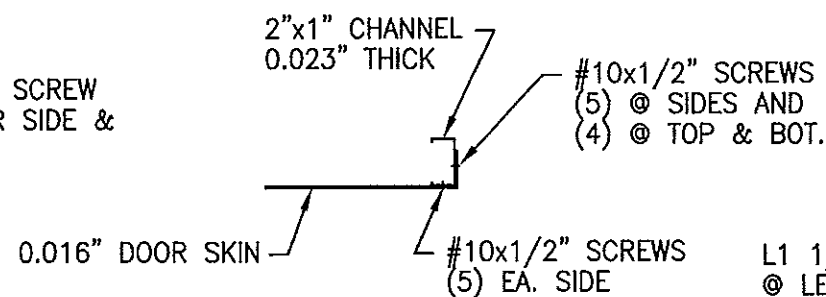
McGINNIS & ASSOCIATES
CONSULTING ENGINEERS, INC.
1110 WESTMARK DRIVE
ST. LOUIS, MISSOURI 63131
314-469-6460

12909

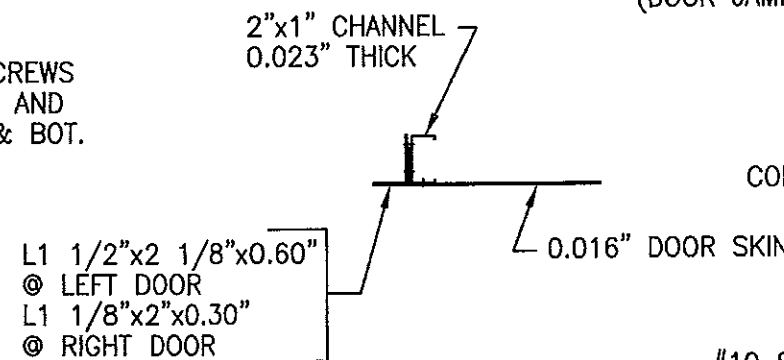
No.	DATE	REVISION	BY
SHEET TITLE:			SCALE:
SECTIONS & DETAILS			NONE
PROJECT:			DRAWN BY:
6'x5', 8'x6', 8'x8' & 10'x8'			DWM
UTILITY SHEDS			DATE:
			6/12/12
Arrow Shed, LLC			DRAWING #
1101 N. 4th St.			S2
Breese, IL 62230			
(618) 526-4546			



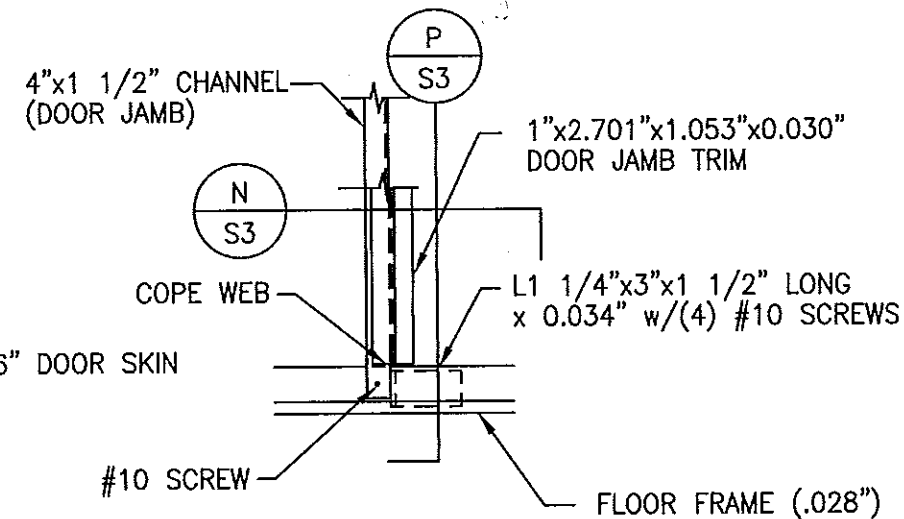
DETAIL
N.T.S. 1 S3



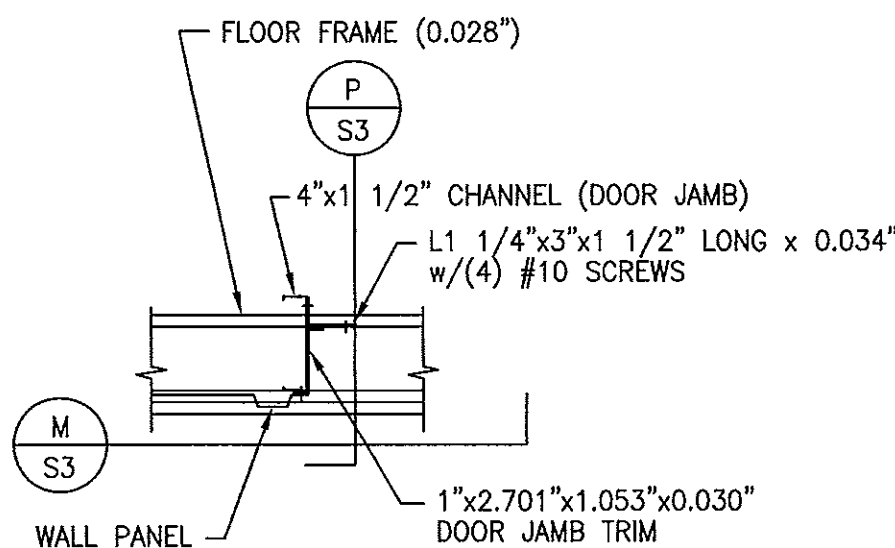
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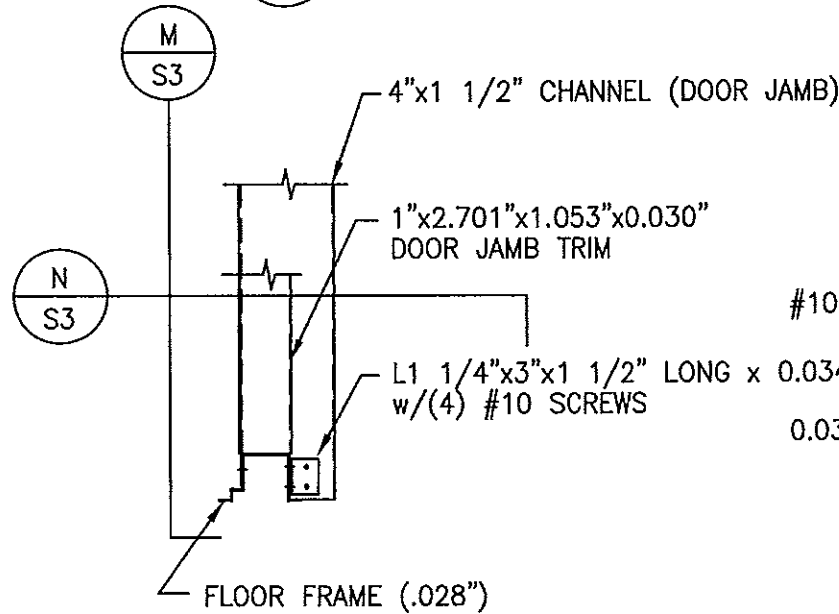
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N.T.S. L S3



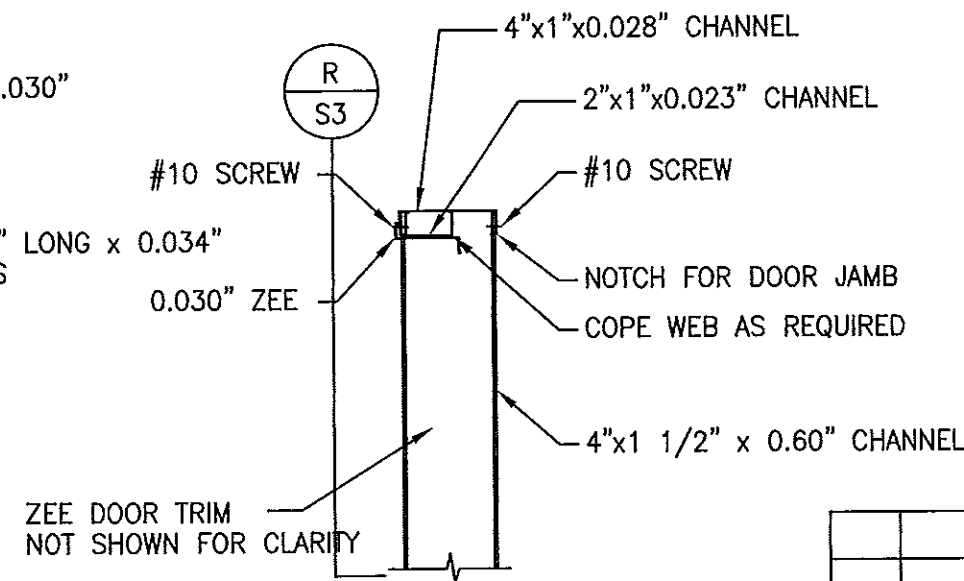
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N.T.S. M S3



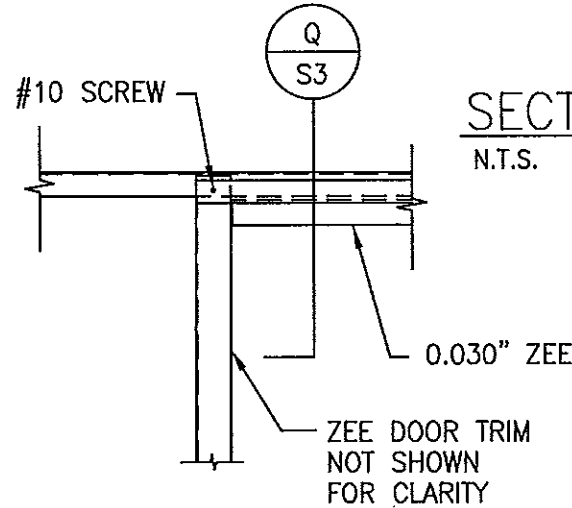
SECTION
N.T.S. N S3



SECTION
N.T.S. O S3

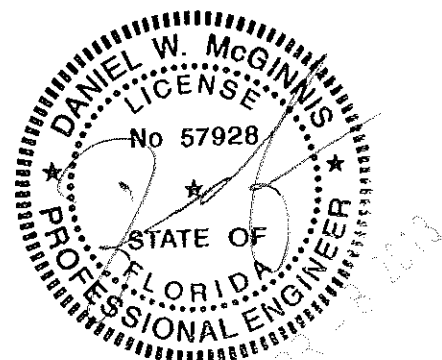


SECTION
N.T.S. Q S3



SECTION
N.T.S. R S3

PRODUCT REVISED
as complying with the Florida
Building Code
Acceptance No. 12-0716-03
Expiration Date 08/24/2017
By *[Signature]*
Miami Dade Product Control



McGINNIS & ASSOCIATES
CONSULTING ENGINEERS, INC.
1110 WESTMARK DRIVE
ST. LOUIS, MISSOURI 63131
314-469-6460 12909

No	DATE	REVISION	BY
SHEET TITLE:			SCALE:
SECTIONS & DETAILS			NONE
PROJECT:			DRAWN BY:
6'x5', 8'x6', 8'x8' & 10'x8' UTILITY SHEDS			DWM
			DATE:
			6/12/12
			DRAWING #
			S3

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